

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Roger Proksch et al. Art Unit: Unknown
Serial No.: Unknown Examiner: Unknown
Filed : October 10, 2003
Title : IMPROVED LINEAR VARIABLE DIFFERENTIAL TRANSFORMERS
FOR HIGH PRECISION POSITION MEASUREMENTS

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Applicants call attention to the attached Information Disclosure Statement and documents listed on form PTO-1449. The references were cited in parent U.S. Patent Application No. 10/016,475, filed November 30, 2001 and, therefore, are not enclosed herewith.

This filing is being made before the receipt of a first Office action on the merits. No fee is required.

Consideration of the foregoing and enclosures plus the return of a copy of the enclosed form PTO-1449 with the Examiner's initials in the left column per MPEP 609 are earnestly solicited along with an early action on the merits.

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Respectfully submitted,

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Scott C. Harris
Reg. No. 32,030

Fish & Richardson P.C.
USPTO Customer No. **20985**
4350 La Jolla Village Drive, Suite 500
San Diego, CA 92122
Telephone: (858) 678-5070
Facsimile: (858) 678-5099

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14083-002002	Application No. Unknown
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Roger Proksch et al.	
		Filing Date October 10, 2003	Group Art Unit Unknown

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	2 364 237	Dec 5, 1944	Neff			
	AB	2 452 862	Nov 2, 1948	Neff			
	AC	2 503 851	Apr 11, 1950	Snow			
	AD	4 030 085	June 14, 1977	Ellis et al.			
	AE	4 634 126	Jan 6, 1987	Kimura			
	AF	4 669 300	June 2 1987	Hall et al.			
	AG	4 705 971	Nov 10, 1987	Nagasaka			
	AH	5 414 939	May 16, 1995	Waugaman			
	AI	5 461 319	Oct 24, 1995	Peters			
	AJ	5 465 046	Nov 7, 1995	Campbell et al.			
	AK	5 469 053	Nov 21, 1995	Laughlin			
	AL	5 477 473	Dec 19, 1995	Mandl et al.			
	AM	5 513 518	May 7, 1996	Lindsay			
	AN	5 705 741	Jan 6, 1998	Eaton et al.			
	AO	5 739 686	Apr 14, 1998	Naughton et al.			
	AP	5 767 670	June 16, 1998	Maher et al.			
	AQ	5 777 468	Jul 7, 1998	Maher			
	AR	5 948 972	Sep 7 1999	Samsavar et al.			
	AS	6 267 005 B1	Jul 31, 2001	Samsavar et al.			
	AT						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AU							
	AV							
	AW							
	AX							

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AY							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AZ	Bertram, H.N. <i>Theory of Magnetic Recording</i> . Cambridge, England: Cambridge University Press, 1994. 112-119.
	AAA	Bozorth, R. M. <i>Ferromagnetism</i> . Princeton, NJ: Van Nostrand, 1951. 524-532
	ABB	Crommie, M.F., C.P. Lutz and D.M. Eigler. "Confinement of Electrons to Quantum Corrals on a Metal Surface." <i>Science</i> 262 (8 October 1993): 218-220.
	ACC	Drexler, K Eric. "Molecular directions in nanotechnology." <i>Nanotechnology</i> 2 (1991): 113-118.
	ADD	Hristoforou, E., H. Chiriac, and Maria Neagu. "A Low Core Mass Linear Variable Differential Transformers Sensor Using Amorphous Wires." <i>Romanian Journal of Physics</i> 41.9-10 (1996): 765-769
	AEE	Kano, Y., S. Hasebe and C. Huang. "New Type LVDT Position Detector." <i>CPEM '88 Digest: 1988 Conference on Precisions Electromagnetic Measurements</i> . Ed. Yasuharu Suematsu. Tsukuba, Japan: Tsukuba Research Center, 1988. 95-96.
	AFF	Meydan, T. and G.W. Healey. "Linear variable differential transformer (LVDT): linear displacement transducer utilizing ferromagnetic amorphous metallic glass ribbons." <i>Sensors and Actuators A: Physical</i> 32.1-3 (April 1992): 582-587.
	AGG	Midgley, G.W., D. Howe, and P.H. Mellor. "Improved Linearity Linear Variable Differential Transformers (LVDTs) Through the Use of Alternative Magnetic Materials." <i>Electric and Magnetic Fields: From Numerical Models to Industrial Applications</i> . Ed. André Nicolet and R. Belmans. New York: Plenum Press, 1995. 311-314.
	AHH	Park, Young Tae, Han Jun Kim, Kwang Min Yu, and Rae Duk Lee. "Study on a Linear Variable Differential Transformer for Precision Measurements." <i>Korean Applied Physics</i> 2.4 (November 1989): 347-351.
	AII	Piner, Richard D., Jin Zhu, Feng Xu, Seunghun Hong, and Chad A. Mirkin. "'Dip-Pen' Nanolithography." <i>Science</i> 283 (29 January 1999): 661-663
	AJJ	Saxena, Suresh C. and S.B. Lal Seksena. "A Self-Compensated Smart LVDT Transducer." <i>IEEE Transactions on Instrumentation and Measurement</i> 38.3 (June 1989): 748-753.

Examiner Signature	Date Considered
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